



# CLIMATE PROJECT - PLANNING SHEET

**Title:** Waling Warming Stripes

**Author:** Paul Esters

**Age:** 6-18

**Content:**

Project to visualise global warming using 'warming stripes'. The children and young people dress up as warming stripes, each in an individual colour shade. The stripes represent the age groups represented in the school; the darkest stripe stands for the warmest year, the year of the school dog's birth, 2023. The conclusion and highlight of the project is a performance by the living 'warming stripes' at a school party. Here, the students hold up coloured letters that form a brief summary of the project. The project was carried out at the Erzbischöfliches Berufskolleg Cologne in February 2024.

**SCIENTIFIC CONTEXT:**

The warming stripes represent a colour (from blue for cold and red for warm) for each temperature, plotted against time. These temperatures have been increasing since the industrial revolution and the resulting greenhouse gas emissions. The warming stripes can be downloaded for various cities and countries from: <https://showyourstripes.info/>

**Development goals:**

- Factual competence: The young people recognise the increasing warming of the earth on the basis of a true-to-life example.
- Methodological competence: They experience that scientific statistics can be easily visualised.
- Self-competence: They recognise that they can make a contribution to combating climate change in their environment. They practice presenting in front of a larger assembly.
- Social competence: They learn that sequences of letters can only be listed if social discipline is observed.

**Planning:**

- Information/development of the connection between CO<sub>2</sub> increase and global warming
- Research and individual allocation of school-specific birth years, rooms, classrooms, outdoor areas, assembly hall, annual temperatures and 'warming stripes'
- Mixing of colours and painting of individual painter's overalls
- Development of the texts to be shown and assignment of letters; definition of background music, moderators
- Practice for the presentation

**Resources:**

- Material: painters' overalls, masking material, beakers, paint brushes, paints, permanent markers (for dates, temperatures, letters), paper.
- Time required: at least 6 teaching units (90 minutes)
- Group size: 8–28 persons
- Further information:  
<https://umweltindikatoren.nrw.de/klima-energie-effizienz/warming-stripes>

**Feedback:**

In this particular project, the 18-year-old students had the additional task of acquiring the painting suits and paints from DIY stores. Painting the suits was difficult and somewhat chaotic. An appearance in painted T-shirts or with painted cardboard signs is more suitable for younger groups.

